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1643

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/468,647

DATE: 07/24/2000
TIME: 13:42:13

Input Set : A:\pto.txt
Output Set: N:\CRF3\07242000\I468647.raw

<110> APPLICANT: Gordon, Robert D.
Sprengel, Jorg J.
Yon, Jeffrey R.
Dijkmans, Josiena J.H.
Gosiewska, Anna
Dhanaraj, Sridevi N.
Xu, Jean
<120> TITLE OF INVENTION: Vascular Endothelial Growth Factor-X
<130> FILE REFERENCE: B0192/7011
<140> CURRENT APPLICATION NUMBER: US 09/468,647
<141> CURRENT FILING DATE: 1999-12-21
<150> PRIOR APPLICATION NUMBER: GB 9828377.3
<151> PRIOR FILING DATE: 1998-12-22
<150> PRIOR APPLICATION NUMBER: US 60/124,967
<151> PRIOR FILING DATE: 1999-03-18
<150> PRIOR APPLICATION NUMBER: US 60/164,131
<151> PRIOR FILING DATE: 1999-11-08
<160> NUMBER OF SEQ ID NOS: 29
<170> SOFTWARE: PatentIn Ver. 2.0
<210> SEQ ID NO: 1
<211> LENGTH: 323
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 1

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 1               5                  10                  15
Tyr Gly Val Gln Asp Pro Gln His Glu Arg Ile Ile Thr Val Ser Thr
            20                  25                  30
Asn Gly Ser Ile His Ser Pro Arg Phe Pro His Thr Tyr Pro Arg Asn
        35                  40                  45
Thr Val Leu Val Trp Arg Leu Val Ala Val Glu Glu Asn Val Trp Ile
    50                  55                  60
Gln Leu Thr Phe Asp Glu Arg Phe Gly Leu Glu Asp Pro Glu Asp Asp
65                  70                  75                  80
Ile Cys Lys Tyr Asp Phe Val Glu Val Glu Glu Pro Ser Asp Gly Thr
                85                  90                  95
Ile Leu Gly Arg Trp Cys Gly Ser Gly Thr Val Pro Gly Lys Gln Ile
            100                 105                 110
Ser Lys Gly Asn Gln Ile Arg Ile Arg Phe Val Ser Asp Glu Tyr Phe
        115                 120                 125
Pro Ser Glu Pro Gly Phe Cys Ile His Tyr Asn Ile Val Met Pro Gln
    130                 135                 140
Phe Thr Glu Ala Val Ser Pro Ser Val Leu Pro Pro Ser Ala Leu Pro
145                 150                 155                 160
Leu Asp Leu Leu Asn Asn Ala Ile Thr Ala Phe Ser Thr Leu Glu Asp
                165                 170                 175
Leu Ile Arg Tyr Leu Glu Pro Glu Arg Trp Gln Leu Asp Leu Glu Asp
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71                 180                 185                 190
73 Leu Tyr Arg Pro Thr Trp Gln Leu Leu Gly Lys Ala Phe Val Phe Gly
74             195                 200                 205
76 Arg Lys Ser Arg Val Val Asp Leu Asn Leu Leu Thr Glu Glu Val Arg
77         210                 215                 220
79 Leu Tyr Ser Cys Thr Pro Arg Asn Phe Ser Val Ser Ile Arg Glu Glu
80 225                 230                 235                 240
82 Leu Lys Arg Thr Asp Thr Ile Phe Trp Pro Gly Cys Leu Leu Val Lys
83                 245                 250                 255
85 Arg Cys Gly Gly Asn Cys Ala Cys Cys Leu His Asn Cys Asn Glu Cys
86             260                 265                 270
88 Gln Cys Val Pro Ser Lys Val Thr Lys Lys Tyr His Glu Val Leu Gln
89         275                 280                 285
91 Leu Arg Pro Lys Thr Gly Val Arg Gly Leu His Lys Ser Leu Thr Asp
92     290                 295                 300
94 Val Ala Leu Glu His His Glu Glu Cys Asp Cys Val Cys Arg Gly Ser
95 305                 310                 315                 320
97 Thr Gly Gly
101 <210> SEQ ID NO: 2
102 <211> LENGTH: 345
103 <212> TYPE: PRT
104 <213> ORGANISM: Homo sapiens
106 <400> SEQUENCE: 2
107 Met Ser Leu Phe Gly Leu Leu Leu Leu Thr Ser Ala Leu Ala Gly Gln
108   1               5                  10                  15
110 Arg Gln Gly Thr Gln Ala Glu Ser Asn Leu Ser Ser Lys Phe Gln Phe
111             20                  25                  30
113 Ser Ser Asn Lys Glu Gln Tyr Gly Val Gln Asp Pro Gln His Glu Arg
114         35                  40                  45
116 Ile Ile Thr Val Ser Thr Asn Gly Ser Ile His Ser Pro Arg Phe Pro
117     50                  55                  60
119 His Thr Tyr Pro Arg Asn Thr Val Leu Val Trp Arg Leu Val Ala Val
120 65                  70                  75                  80
122 Glu Glu Asn Val Trp Ile Gln Leu Thr Phe Asp Glu Arg Phe Gly Leu
123                 85                  90                  95
125 Glu Asp Pro Glu Asp Asp Ile Cys Lys Tyr Asp Phe Val Glu Val Glu
126             100                 105                 110
128 Glu Pro Ser Asp Gly Thr Ile Leu Gly Arg Trp Cys Gly Ser Gly Thr
129         115                 120                 125
131 Val Pro Gly Lys Gln Ile Ser Lys Gly Asn Gln Ile Arg Ile Arg Phe
132     130                 135                 140
134 Val Ser Asp Glu Tyr Phe Pro Ser Glu Pro Gly Phe Cys Ile His Tyr
135 145                 150                 155                 160
137 Asn Ile Val Met Pro Gln Phe Thr Glu Ala Val Ser Pro Ser Val Leu
138                 165                 170                 175
140 Pro Pro Ser Ala Leu Pro Leu Asp Leu Leu Asn Asn Ala Ile Thr Ala
141             180                 185                 190
143 Phe Ser Thr Leu Glu Asp Leu Ile Arg Tyr Leu Glu Pro Glu Arg Trp
144         195                 200                 205
```

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Input Set : A:\pto.txt
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```
146 Gln Leu Asp Leu Glu Asp Leu Tyr Arg Pro Thr Trp Gln Leu Leu Gly
147     210                 215                 220
149 Lys Ala Phe Val Phe Gly Arg Lys Ser Arg Val Val Asp Leu Asn Leu
150 225                 230                 235                 240
152 Leu Thr Glu Glu Val Arg Leu Tyr Ser Cys Thr Pro Arg Asn Phe Ser
153                 245                 250                 255
155 Val Ser Ile Arg Glu Glu Leu Lys Arg Thr Asp Thr Ile Phe Trp Pro
156             260                 265                 270
158 Gly Cys Leu Leu Val Lys Arg Cys Gly Gly Asn Cys Ala Cys Cys Leu
159         275                 280                 285
161 His Asn Cys Asn Glu Cys Gln Cys Val Pro Ser Lys Val Thr Lys Lys
162     290                 295                 300
164 Tyr His Glu Val Leu Gln Leu Arg Pro Lys Thr Gly Val Arg Gly Leu
165 305                 310                 315                 320
167 His Lys Ser Leu Thr Asp Val Ala Leu Glu His His Glu Glu Cys Asp
168                 325                 330                 335
170 Cys Val Cys Arg Gly Ser Thr Gly Gly
171             340                 345
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175 <211> LENGTH: 1035
176 <212> TYPE: DNA
177 <213> ORGANISM: Homo sapiens
179 <400> SEQUENCE: 3
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181 caggcggaat ccaacctgag tagtaaattc cagttttcca gcaacaagga acagaacgga 120
182 gtacaagatc ctcagcatga gagaattatt actgtgtcta ctaatggaag tattcacagc 180
183 ccaaggtttc ctcatactta tccaagaaat acggtcttgg tatggagatt agtagcagta 240
184 gaggaaaatg tatggataca acttacgttt gatgaaagat ttgggcttga agacccagaa 300
185 gatgacatat gcaagtatga ttttgtagaa gttgaggaac ccagtgatgg aactatatta 360
186 gggcgctggt gtggttctgg tactgtacca ggaaaacaga tttctaaagg aaatcaaatt 420
187 aggataagat ttgtatctga tgaatatttt ccttctgaac cagggttctg catccactac 480
188 aacattgtca tgccacaatt cacagaagct gtgagtcctt cagtgctacc cccttcagct 540
189 ttgccactgg acctgcttaa taatgctata actgccttta gtaccttgga agaccttatt 600
190 cgatatcttg aaccagagag atggcagttg gacttagaag atctatatag gccaacttgg 660
191 caacttcttg gcaaggcttt tgtttttgga agaaaatcca gagtggtgga tctgaacctt 720
192 ctaacagagg aggtaagatt atacagctgc acacctcgta acttctcagt gtccataagg 780
193 gaagaactaa agagaaccga taccattttc tggccaggtt gtctcctggt taaacgctgt 840
194 ggtgggaact gtgcctgttg tctccacaat tgcaatgaat gtcaatgtgt cccaagcaaa 900
195 gttactaaaa aataccacga ggtccttcag ttgagaccaa agaccggtgt caggggattg 960
196 cacaaatcac tcaccgacgt ggccctggag caccatgagg agtgtgactg tgtgtgcaga 1020
197 gggagcacag gagga                                                  1035
199 <210> SEQ ID NO: 4
200 <211> LENGTH: 22
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
207 <400> SEQUENCE: 4                                                  22
208 aaaatgtatg gatacaactt ac
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/468,647

DATE: 07/24/2000
TIME: 13:42:13

Input Set : A:\pto.txt
Output Set: N:\CRF3\07242000\I468647.raw

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212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
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218 <400> SEQUENCE: 5 23
219 gtttgatgaa agatttgggc ttg
221 <210> SEQ ID NO: 6
222 <211> LENGTH: 22
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
229 <400> SEQUENCE: 6 22
230 tttctaaagg aaatcaaatt ag
232 <210> SEQ ID NO: 7
233 <211> LENGTH: 20
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
240 <400> SEQUENCE: 7 20
241 gataagattt gtatctgatg
243 <210> SEQ ID NO: 8
244 <211> LENGTH: 17
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
251 <400> SEQUENCE: 8 17
252 gatgtctcct ctttcag
254 <210> SEQ ID NO: 9
255 <211> LENGTH: 18
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
262 <400> SEQUENCE: 9 18
263 gcacaactcc taattctg
265 <210> SEQ ID NO: 10
266 <211> LENGTH: 18
267 <212> TYPE: DNA
268 <213> ORGANISM: Artificial Sequence
270 <220> FEATURE:
271 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
273 <400> SEQUENCE: 10 18
274 agcacctgat tccgttgc
276 <210> SEQ ID NO: 11

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/468,647

DATE: 07/24/2000
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Input Set : A:\pto.txt
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277 <211> LENGTH: 20
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
284 <400> SEQUENCE: 11 20
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287 <210> SEQ ID NO: 12
288 <211> LENGTH: 19
289 <212> TYPE: DNA
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
295 <400> SEQUENCE: 12 19
296 aagagacata cttctgtac
298 <210> SEQ ID NO: 13
299 <211> LENGTH: 21
300 <212> TYPE: DNA
301 <213> ORGANISM: Artificial Sequence
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304 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
306 <400> SEQUENCE: 13 21
307 ccaggtacaa taagtgaact g
309 <210> SEQ ID NO: 14
310 <211> LENGTH: 28
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
317 <400> SEQUENCE: 14 28
318 cctttagaaa tctgttttcc tggtacag
320 <210> SEQ ID NO: 15
321 <211> LENGTH: 31
322 <212> TYPE: DNA
323 <213> ORGANISM: Artificial Sequence
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326 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
328 <400> SEQUENCE: 15 31
329 ggaaaatatt catcagatac aaatcttatc c
331 <210> SEQ ID NO: 16
332 <211> LENGTH: 22
333 <212> TYPE: DNA
334 <213> ORGANISM: Artificial Sequence
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339 <400> SEQUENCE: 16 22
340 ggtccagtgg caaagctgaa gg
342 <210> SEQ ID NO: 17
343 <211> LENGTH: 29

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/468,647

DATE: 07/24/2000
TIME: 13:42:14

Input Set : A:\pto.txt
Output Set: N:\CRF3\07242000\I468647.raw